

Claim Objections

Claims 2, 14, 40 and 46 were objected to as being dependent upon rejected base claims, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claim 2 has been rewritten in independent form including all of the limitations of a rejected base claim. Claim 14 has been amended to depend from claim 2. Claims 40 and 46 depend from claim 12, which has been amended to include the limitations of allowed claim 2. Thus, the objections to claims 2, 14, 40 and 46 have been overcome, and such claims are in condition for allowance.

Claim Rejections - 35 U.S.C. § 102

Claims 3-7, 11-12 and 41-44 were rejected as being anticipated by U.S. Patent No. 5,898,784 issued to Kirby et al. (*Kirby*). Claim 11 has been canceled. Thus, the rejection of claim 11 as being anticipated by *Kirby* is moot. Claims 3 and 6 have been amended to depend from allowed claim 2. Claims 4-5 depend from claim 3. Claim 7 depends from claim 6. Claims 41 and 44 depend from claim 12, which has been amended to include the limitations of allowed claim 2. Claims 42-43 depend from claim 41. Therefore, Applicants submit that claims 3-7, 12 and 41-44 are in condition for allowance.

Claims 19 and 21 were rejected as being anticipated by U.S. Patent No. 5,918,022 issued to Batz et al. (*Batz*). Claims 19 and 21 have been canceled. Thus, the rejection of claims 19-21 as being anticipated by *Batz* is moot.

Claim Rejections - 35 U.S.C. § 103

Claims 8-10, 13, 15-18, 45 and 47-48 were rejected as being unpatentable over *Kirby* in view of U.S. Patent No. 6,085,328 issued to Klein et al. (*Klein*). Claims 8-10 depend from claim 6, which has been amended to depend from allowed claim 2. Claims 13 and 15-18 have been amended to depend from allowed claim 2. Claims 45 and 47-48 depend from claim 12, which has been amended to include the limitations of allowed claim 2. Therefore, Applicants submit that claims 8-10, 13 and 15-18, 45 and 47-48 are in condition for allowance.

Claim 20 was rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 5,918,022 issued to Batz et al. (*Batz*). Claim 20 has been canceled. Thus, the rejection of claim 20 as being unpatentable over *Batz* is moot.

Allowable Subject Matter

Claims 2, 14, 23-27, 29-32, 34-36, 38-40, 46 and 49-55 were allowed.

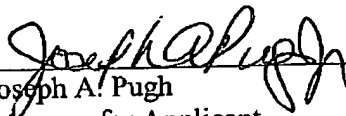
Conclusion

For at least the foregoing reasons, Applicants submit that the rejections have been overcome. Therefore, claims 2-10, 12-18, 23-27, 29-32, 34-36 and 38-55 are in condition for allowance and such action is earnestly solicited. The Examiner is respectfully requested to contact the undersigned by telephone if such contact would further the examination of the present application.

Please charge any shortages and credit any overcharges to our Deposit Account
number 02-2666.

Respectfully submitted,
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, LLP

Date: 9/20/02


Joseph A. Pugh
Attorney for Applicant
Reg. No. 52,137


12400 Wilshire Boulevard
Seventh Floor
Los Angeles, CA 90025-1026
(503) 684-6200

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VERSION OF CLAIMS MARKED TO SHOW CHANGES MADE

2. (Twice Amended) [The system defined in Claim 11] A system comprising:
- a network having a host coupled thereto, the host executing software to generate packets for communication on the network;
- a bus with a bus device coupled thereto, wherein the bus device generates isochronous data and the network operates asynchronously, such that isochronous data is transported over an asynchronous network;
- an interface coupling the network to the bus, the interface and host coordinating to tunnel bus events over the network between the host and the bus device by encapsulating bus events into network protocols, transferring the encapsulated bus events over the network, and subsequently decapsulating the bus events to recreate the bus events, wherein the host runs an application that generates packets for the bus device and relies on an operating system that includes a driver for the bus device that issues the bus device packets and redirects the bus device packets to a network stack that encapsulates the bus device packets to create a network packet and sends the network packet to a remote bus device via the interface, the interface thereafter decapsulating the network packet to obtain the bus device packet and forwarding the bus device packet to the bus device.
3. (Twice Amended) The system defined in Claim [11] 2 wherein the interface generates network packets that encapsulate the bus events in a network protocol portion.

6. (Twice Amended) The system defined in Claim [11] 2 wherein each tunneled request includes a tunneling header and a tunneling data portion, wherein the tunneling data portion is specific to each tunneling packet type and tunneling transaction type, and the tunneling header is common among tunneling packet types.

11. Canceled.

12. (Twice Amended) A system comprising:
a network having a host coupled thereto, the host executing software to generate packets for communication on the network;
a bus with a bus device coupled thereto, wherein the bus device generates isochronous data and the network operates asynchronously, such that isochronous data is transported over an asynchronous network;
an interface coupling the network to the bus, the interface and host coordinating to tunnel bus events over the network between the host and the bus device by encapsulating bus events into network protocols, transferring the encapsulated bus events over the network, and subsequently decapsulating the bus events to recreate the bus events, wherein the bus device generates bus device packets for transport to the host and sends the bus device packets on the bus, the interface encapsulating the bus device packets into a network packet and forwards the network packet to the host, the host executing a network driver that decapsulates the network packet, identifies bus device packets therein and redirects the bus device packets to a bus device driver running thereon.

13. (Twice Amended) The system defined in Claim 2 [11] wherein the interface comprises a remote peripheral server.

14. (Twice Amended) The system defined in Claim 2 [11] wherein the network comprises an Internet Protocol (IP) Ethernet network.

15. (Twice Amended) The system defined in Claim 2 [11] wherein the bus comprises a serial bus.

16. (Twice Amended) The system defined in claim 2 [11] wherein the bus comprises a parallel bus.

17. (Twice Amended) The system defined in Claim 2 [11] wherein the bus adheres to the IEEE-1394 bus standard.

18. (Twice Amended) The system defined in Claim 2 [11] wherein the bus adheres to the Universal Serial Bus Standard (USB).

19. Canceled.

20. Canceled.

21. Canceled.